

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region III - 6th & Walnut Sts.  
Philadelphia, Pa. 19106

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**ORIGINAL  
(Red)**

**SUBJECT:** Llangollen Landfill, Delaware

**DATE:** April 18, 1977

**FROM:** Gregory Koltonuk  
Water Quality Monitoring Branch (3SA60)

**TO:** Larry S. Miller, Chief  
Water Quality Monitoring Branch (3SA60)

The information listed below is a chronology of the compliance monitoring activities that took place at the Llangollen landfill, Delaware during the 2nd Quarter FY 77 and the events thereafter.

1/12/77 - Memo from Paul Ambrose to Larry Miller.

Enforcement requests sampling wells #31, #28, #RW5 and lists parameters to be analyzed.

1/19/77 - Memo from Paul Ambrose to Larry Miller.

Enforcement changes their original well requests from #31, #28 and #RW5 to wells #29, #27 and #RW3.

1/24/77 - Memo from C. Kleeman to Larry Miller

Phase I sampling request at the landfill is itemized i.e. wells are identified & parameters to be sampled at each.

1/27/77 - Memo from Gregory Koltonuk to Orterio Villa

Subject: S&A investigation - Llangollen landfill, Delaware. This is the original request for Phase I sampling @ Llangollen. We asked Ort to: "Please review attached material & prepare an evaluation of the resource expenses in accordance with Gary's memo of January 10th (Requests for S&A assistance)."

2/11/77 - Memo: Al Montague to Dan Sanning, Cincinnati.

Subject: Analysis of Samples Collected @ Llangollen landfill site in Delaware. Requesting technical assistance in analysis of samples to be collected at the site in Delaware. - After identification of any toxic substance and known or suspected carcinogen in the ppb range, further work on these identified substances will be necessary to quantify these compounds. Your primary coordinator will be Mr. Ort Villa.

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2/22/77 - Memo: Larry Miller to Orterio Villa

Delaware does not have capability to analyze for organics nor the money to contract for the results; therefore, they do not want to split Llangollen samples.

2/28/77 - Memo from Gregory Koltonuk to Larry Miller

Concerned results of discussion with T. Munson, O. Villa (2/24/77) and Bernie Sarnoski, C. Kleeman (2/23/77).

1. All but one of seven wells requested for sampling was done. Well #49 was not.

2. Environmental conditions @ site during the 2/22 sampling made things difficult for sampling. Ort would like to wait approximately 1 month for better weather before proceeding further w/additional sampling efforts.

Water Supply was agreeable to this.

3. Thru Al Montague's efforts Cincinnati's samples are being handled by reps @ Stanford & U. of Illinois. AFO had gone thru elaborate preparation of samples and containers for those samples in order to meet University's requirements.

3/2/77 - Memo from Gregory Koltonuk to L. Miller.

Subject: telecon between G.K. & T. Munson in which the following comments were received relative to the 2/22/77 Phase I sampling:

a. All samples have been extracted & results expected in approximately 2 weeks.

b. No sampling for any of the other parameters was done as requested in Water Supply's memo of March, 1977.

3/3/77 - Telecon GK: T. Munson

Dr. Chian called Munson & told him sample bottles for collecting well samples were not prepared correctly; Also, Chian told him they requested triplicates of each volatiles sample; AFO sent one instead. No upstream from landfill samples taken either. Therefore, University won't do their split; that leaves only one set of samples/analyses - AFO.

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3/21/77 - Memo from Bernie to Larry

Subject: Sampling restriction @ Llangollen.

This was sent to S&A for AFO's attention prior to their performing the Phase II sampling @ Llangollen. Llangollen area is leased by the County from a Gravel Pit Company. The parties are negotiating a new lease & until negotiations are completed the owners are denying access to the property.

3/29/77 - Telecon GK: Don Sanning, Cincinnati (8-684-7871)

Sanning spoke with Dr. Chian @ Univ. of Illinois who is performing the Llangollen split analyses for organics and he was told that samples are all extracted. Some GC work was completed. Official results can't be released until contract money for work is given to the University.

3/31/77 - Telecon GK: Don Sanning

Don mentioned giving me some preliminary results on all of the landfill samples but this never materialized.

4/13/77 - Telecon GK: Tim Munson AFO

What's the status on the 2/22/77 Llangollen sample?  
- Mass spec. is not running correctly ... may have something in a couple of weeks.

- Tom also mentioned, after I questioned him again on sample/sample bottle preparation for Cincinnati's split samples, that when he spoke with Dr. Chian @ U. of Illinois about this that Chian agreed to a bottle prep procedure other than the furnace method originally suggested. Chian also reiterated that volatile organics samples were not suitable.

4/13/77 - Telecon Charlie Kleeman: GK

Charlie spoke w/Sanning @ Cincinnati. Sanning reported bad news: University official related to him that bottles for sample collection were never prepared correctly; that any results run on samples collected in AFO prepared bottles would be highly unrepresentative.

4/15/77 - 11:00 a.m. telecon GK: Dan Sanning, Cincinnati

Told me that in his discussions w/Ed Chian at U. of Illinois, old solvent bottles were used by AFO for the water samples and were not properly cleaned. When these samples were run the analysts could see a tremendous background interference.

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The University is blaming this whole mess on the bottles.  
They will run samples again but won't be able to get below  
a 10 ppb detection limit.

*Ort told me  
that U. of Ill.  
also sent  
first washing from  
the bottles. They  
never used  
them.*

4/15/77 - 11:15 a.m. - telecon GK: Dr. Ed Chian, U. of Illinois  
(8-957-6962)

He's not sure if he spoke to Tom Munson before or after  
sample bottles were set by AFO to the University. This  
concerns bottle & sample preparation.

Chian said he will call me on Wednesday 4/20/77 for clarification  
on what was actually told to AFO regarding sample & sample bottle  
preparation.

4/20/77 - 1:00 p.m. - Larry Miller discussion with Ort Villa.

Munson finding considerable solvent peaks in the drinking water  
samples. He is not finding any evidence to show a movement  
of contaminants from the recovery wells to the drinking  
water wells. Many of the peaks are just at detectable  
limit of our GC/MS. Need to use Bell Budde's equipment to do  
the job right. Ort is recommending that we resample. We would  
collect more volatile samples and sample the additional wells  
asked for as part of Phase 11.

4/20/77 - 2:30 p.m. - telecon GK: Dr. Ed Chian, University of Illinois

Dr. DeWalle didn't speak to Tom Munson at all. DeWalle did  
speak to Ort Villa and as a result of that conversation DeWalle  
told Chian not to accept the samples that Annapolis collected;  
at the time of the Villa: DeWalle conversation the samples  
were already collected by AFO. A couple of weeks after the  
samples were sent to Chicago Sanning told Chian to run the samples.

According to Chian & DeWalle there is no recollection as to  
whether or not an alternate procedure for bottle preparation  
for these sample collections was ever recommended.

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